

POTOMAC RIVER BASIN

01659000 NORTH BRANCH CHOPAWAMSIK CREEK NEAR INDEPENDENT HILL, VA

LOCATION.--Lat 38°33'58", long 77°25'47", NAD83, Prince William County, Hydrologic unit 02070011, on left bank 1.0 mi upstream from Chopawamsic Creek, 4.8 mi south of Independent Hill, located downstream side of MCB-1, 10 ft.

DRAINAGE AREA.--5.79 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1951 to June 1957, March 2000 to current year.

GAGE.--Water stage recorder. Datum of gage is 230 ft above sea level, from topographic map. May 1951 to June 1957, at site 200 ft downstream at different datum.

REMARKS.--Records fair except those for period Oct. 1 to Dec. 18, period with ice effect, Dec. 22 to Jan. 2, and period of no gage-height record, Mar. 28-30, which are poor. Previously unpublished sediment records for 2000 Water Year (March to September) included in this report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	1.2	1.5	e1.5	4.0	3.5	10	1.9	3.3	2.5	3.1	1.5
2	.99	1.2	1.4	e1.5	3.4	3.3	7.3	1.8	5.8	5.7	2.0	1.1
3	.91	1.1	1.5	1.5	3.0	3.1	5.7	1.6	3.6	2.0	1.5	.87
4	.81	.97	1.6	1.5	2.8	3.5	5.1	1.5	2.6	1.7	1.3	.76
5	.82	1.4	1.7	1.6	4.4	7.2	4.5	1.4	5.2	1.4	1.1	.66
6	.94	1.2	1.7	1.7	5.2	5.9	4.5	1.1	3.4	1.1	1.0	.55
7	.73	1.3	1.9	1.7	3.9	4.4	4.8	1.0	3.1	.85	.83	.51
8	.72	1.3	1.8	2.4	3.3	3.6	4.3	1.1	2.8	1.9	.67	.47
9	.74	1.4	1.9	2.8	3.2	3.4	4.4	1.0	2.2	1.8	.58	.45
10	.95	2.2	1.8	2.1	3.1	3.1	4.7	1.0	1.8	1.2	1.3	.45
11	.95	1.4	2.1	2.1	2.8	2.9	9.1	.92	1.6	.90	3.8	.46
12	1.0	1.2	2.2	2.2	2.6	2.9	8.2	.75	1.5	.64	1.8	.43
13	1.0	1.1	2.1	2.1	3.2	6.4	6.8	.68	2.1	.47	2.6	.37
14	.88	1.5	5.0	2.1	3.5	5.0	5.7	.62	3.3	.45	4.9	.37
15	.84	1.4	5.5	2.5	3.8	4.6	4.9	.56	1.9	.39	1.8	.37
16	.93	1.4	5.1	2.5	4.1	9.1	5.9	.63	2.8	.36	1.2	.37
17	.92	1.4	20	2.2	12	5.6	6.0	.63	3.2	.35	.98	.36
18	1.1	1.2	7.7	2.2	6.3	4.2	4.8	.87	1.7	.43	.85	.35
19	1.6	1.3	4.5	16	4.5	3.4	3.9	10	1.2	.47	.74	.35
20	1.5	1.5	3.6	32	4.1	3.1	3.6	4.4	1.1	.44	.82	.48
21	1.4	1.4	2.9	18	3.7	115	3.5	3.3	1.0	.38	.66	.53
22	1.0	1.4	e2.5	6.8	3.3	36	3.4	29	1.5	.34	.54	.55
23	.91	1.5	e2.2	4.9	3.7	13	3.2	57	70	.28	.48	.47
24	.90	1.6	e2.0	4.3	4.7	8.3	2.9	8.2	8.4	.25	.51	.91
25	.91	2.1	e1.9	3.8	5.1	6.3	2.6	6.9	3.8	.26	.47	2.2
26	1.0	7.4	e1.8	3.2	5.6	5.2	2.4	39	2.5	43	.39	1.7
27	1.2	3.4	e1.7	3.2	4.1	4.4	2.4	18	2.0	25	.37	1.2
28	1.3	2.1	e1.6	2.9	3.7	e3.6	2.2	7.4	1.6	3.2	.34	1.0
29	1.5	1.5	e1.6	2.8	---	e20	1.9	4.9	1.4	45	.29	.88
30	1.6	1.5	e1.5	5.5	---	e86	1.9	3.6	1.3	27	.92	.75
31	1.1	---	e1.5	6.3	---	17	---	2.8	---	6.5	3.1	---
TOTAL	32.11	50.57	95.8	145.9	117.1	403.0	140.6	213.56	147.7	176.26	40.94	21.42
MEAN	1.04	1.69	3.09	4.71	4.18	13.0	4.69	6.89	4.92	5.69	1.32	.71
MAX	1.6	7.4	20	32	12	115	10	57	70	45	4.9	2.2
MIN	.72	.97	1.4	1.5	2.6	2.9	1.9	.56	1.0	.25	.29	.35
CFSM	.18	.29	.53	.81	.72	2.25	.81	1.19	.85	.98	.23	.12
IN.	.21	.32	.62	.94	.75	2.59	.90	1.37	.95	1.13	.26	.14

01659000 NORTH BRANCH CHOPAWAMSIK CREEK NEAR INDEPENDENT HILL, VA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1957, 2000 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.39	4.03	4.77	5.98	6.33	10.2	8.92	4.43	3.98	2.36	2.98	1.34
MAX	3.25	11.9	10.9	11.4	9.58	17.0	19.0	7.77	12.5	5.69	16.2	4.49
(WY)	1957	1953	1952	1953	1957	1953	1952	1953	1951	2001	1955	2000
MIN	.30	.51	1.90	1.05	3.06	6.71	3.69	1.33	.58	.19	.18	.036
(WY)	1955	1955	1956	1955	1954	1954	1955	1957	1954	1955	1954	1954

SUMMARY STATISTICS

FOR 2000 CALENDAR YEAR

FOR 2001 WATER YEAR

WATER YEARS 1951 - 1957
2000 - 2001

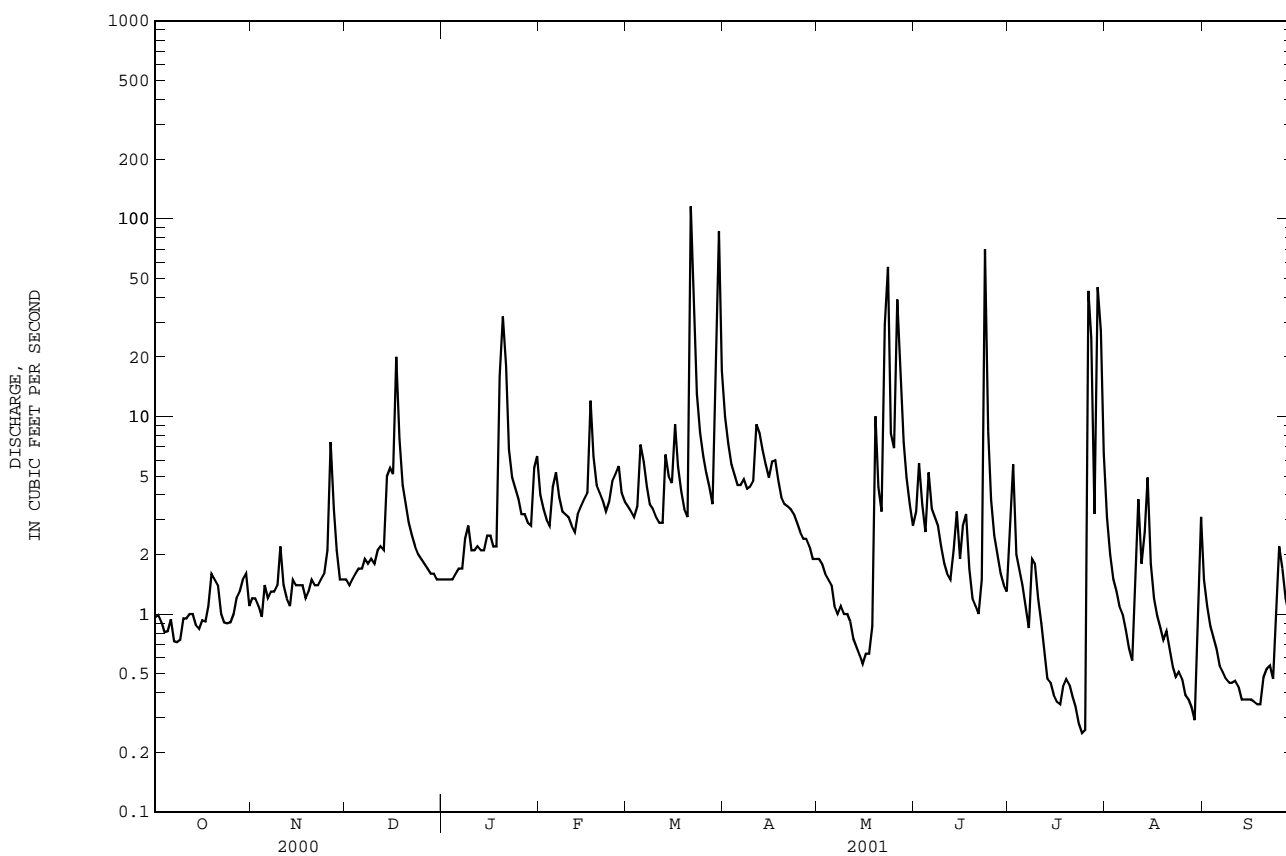
ANNUAL TOTAL						1584.96						
ANNUAL MEAN						4.34				4.52		
HIGHEST ANNUAL MEAN										6.57		1952
LOWEST ANNUAL MEAN										2.36		1954
HIGHEST DAILY MEAN				64	Apr 18		115	Mar 21		168	Nov 21	1952
LOWEST DAILY MEAN				.13	Sep 18		.25	Jul 24		.00	aOct 1	1954
ANNUAL SEVEN-DAY MINIMUM				.45	Sep 12		.35	Jul 19		.00	Oct 1	1954
MAXIMUM PEAK FLOW							240	Mar 21		298	Nov 21	1952
MAXIMUM PEAK STAGE							6.63	Mar 21		8.04	Nov 21	1952
INSTANTANEOUS LOW FLOW							.22	bJul 17		.00	cOct 1	1954
ANNUAL RUNOFF (CFSM)							.75			.78		
ANNUAL RUNOFF (INCHES)							10.18			10.61		
10 PERCENT EXCEEDS				9.5			6.6			9.0		
50 PERCENT EXCEEDS				2.0			1.9			2.1		
90 PERCENT EXCEEDS				.88			.54			.30		

a Many days in October 1954.

b Also July 23-26, 2001.

c Many days in October 1954, and Sept. 19, 2000.

e Estimated.



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SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---
TOTAL	0	---	0	0	---	0	0	---	0
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	2.6	---	---
15	---	---	---	---	---	---	2.6	---	---
16	---	---	---	---	---	---	2.7	---	---
17	---	---	---	---	---	---	6.9	---	---
18	---	---	---	---	---	---	5.3	---	---
19	---	---	---	---	---	---	3.9	---	---
20	---	---	---	---	---	---	3.5	---	---
21	---	---	---	---	---	---	35	---	---
22	---	---	---	---	---	---	29	---	---
23	---	---	---	---	---	---	12	---	---
24	---	---	---	---	---	---	6.8	9	.25
25	---	---	---	---	---	---	5.2	7	.15
26	---	---	---	---	---	---	6.3	10	.25
27	---	---	---	---	---	---	4.9	17	.39
28	---	---	---	---	---	---	18	35	1.8
29	---	---	---	---	---	---	7.5	24	.69
30	---	---	---	---	---	---	4.4	13	.27
31	---	---	---	---	---	---	3.3	7	.13
TOTAL	0	---	0	0	---	0	159.9	---	3.93

01659000 NORTH BRANCH CHOPAWAMSIK CREEK NEAR INDEPENDENT HILL, VA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	2.8	5	.08	5.1	15	.20	1.8	3	.01
2	3.1	6	.10	4.6	11	.14	1.9	3	.02
3	4.5	6	.12	3.9	9	.09	3.4	4	.03
4	8.6	7	.23	3.7	8	.08	2.0	3	.01
5	7.5	12	.33	3.4	13	.12	1.4	7	.03
6	5.9	11	.26	3.1	8	.06	1.9	5	.02
7	5.5	9	.21	2.7	6	.04	1.8	4	.02
8	13	24	1.9	2.4	6	.04	1.1	5	.01
9	35	30	4.6	2.1	7	.04	.75	3	.01
10	8.4	13	.39	2.1	7	.04	.60	4	.01
11	4.8	9	.18	2.9	6	.05	.41	4	.00
12	3.7	7	.14	2.1	7	.04	.39	4	.00
13	2.6	9	.14	2.3	11	.07	.58	7	.01
14	2.4	7	.10	4.6	11	.14	.71	4	.01
15	2.5	6	.09	2.7	8	.06	.89	5	.01
16	2.9	7	.11	2.1	7	.05	4.5	8	.10
17	38	47	10	1.9	7	.04	9.5	13	.59
18	64	45	8.9	1.7	4	.03	24	15	1.1
19	28	23	1.8	1.6	3	.02	19	10	.61
20	13	14	.50	2.0	4	.03	8.4	7	.16
21	16	21	1.2	2.1	3	.03	5.5	6	.09
22	16	18	.85	7.3	6	.18	6.8	7	.14
23	9.7	13	.33	4.7	5	.08	5.1	6	.09
24	7.2	14	.26	3.1	3	.04	3.9	6	.06
25	29	37	4.2	2.3	2	.03	2.8	6	.05
26	20	37	2.1	2.2	3	.03	2.6	6	.05
27	13	14	.50	2.5	4	.02	4.8	8	.31
28	9.5	7	.19	2.6	2	.02	34	30	3.5
29	7.6	7	.14	3.1	3	.03	12	7	.26
30	6.1	16	.25	2.6	4	.03	7.4	6	.13
31	---	---	---	2.2	4	.02	---	---	---
TOTAL	390.3	---	40.20	91.7	---	1.89	169.93	---	7.44
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	4.1	4	.06	2.2	8	.13	6.7	5	.08
2	2.7	6	.06	1.3	9	.11	4.7	6	.08
3	2.8	7	.07	1.2	7	.09	20	21	1.3
4	3.5	8	.10	6.8	14	.43	12	9	.32
5	3.3	7	.09	3.7	10	.22	5.0	4	.06
6	2.5	4	.04	7.6	12	.50	2.5	4	.03
7	1.8	4	.03	9.0	6	.25	2.1	3	.02
8	1.4	5	.03	2.0	6	.11	1.6	5	.02
9	1.0	6	.03	1.5	6	.11	1.4	4	.02
10	1.1	4	.03	1.4	8	.03	1.1	6	.02
11	1.2	3	.02	1.7	7	.03	.91	6	.01
12	.95	4	.02	1.4	6	.02	.73	8	.02
13	.68	6	.03	1.6	5	.02	.89	9	.02
14	.83	8	.02	1.7	7	.03	.58	13	.02
15	59	52	14	1.5	4	.02	.40	14	.02
16	5.4	15	.33	1.5	4	.02	.24	12	.01
17	2.7	7	.10	1.5	4	.02	.17	7	.00
18	1.8	5	.06	2.4	7	.04	.13	5	.00
19	1.5	4	.04	2.1	7	.04	2.1	13	.12
20	5.7	5	.11	1.2	5	.01	1.5	9	.04
21	2.5	6	.08	.84	7	.01	1.2	7	.02
22	1.5	11	.12	.67	9	.02	.61	6	.01
23	1.1	15	.14	.57	6	.01	.44	7	.01
24	1.2	9	.09	1.7	3	.01	.29	7	.00
25	1.3	11	.12	2.2	4	.02	10	35	2.3
26	1.8	11	.14	.81	5	.01	40	20	2.7
27	1.8	11	.14	.62	2	.00	10	4	.13
28	5.3	18	.51	1.7	3	.01	4.0	3	.03
29	12	17	.73	2.0	3	.02	2.0	3	.02
30	3.2	6	.11	2.8	4	.03	1.4	4	.01
31	2.3	7	.11	4.8	3	.03	---	---	---
TOTAL	137.96	---	17.56	72.01	---	2.40	134.69	---	7.44
YEAR	1156.49		80.86						

POTOMAC RIVER BASIN

01659000 NORTH BRANCH CHOPAWAMSIK CREEK NEAR INDEPENDENT HILL, VA--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)	MEAN CONCEN- TRATION (MG/L)	LOAD (TONS/ DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4	.01	5	.02	12	.05	2	.00	19	.21	15	.14
2	4	.01	5	.02	12	.05	2	.01	8	.08	10	.09
3	4	.00	4	.01	12	.05	2	.01	7	.06	6	.05
4	3	.00	4	.01	12	.05	3	.01	7	.05	11	.11
5	4	.00	6	.02	13	.06	4	.02	16	.22	28	.54
6	4	.01	3	.01	13	.06	4	.02	25	.35	20	.32
7	3	.00	5	.02	12	.06	5	.02	19	.20	10	.12
8	3	.00	6	.02	12	.06	9	.06	17	.15	5	.05
9	2	.00	9	.04	11	.06	8	.06	17	.14	3	.03
10	4	.01	13	.08	11	.05	7	.04	9	.08	8	.07
11	4	.01	9	.03	11	.06	9	.05	6	.05	7	.05
12	5	.01	6	.02	11	.07	11	.06	4	.03	7	.05
13	4	.01	6	.02	15	.09	8	.05	3	.02	11	.18
14	3	.00	8	.03	39	.56	8	.04	6	.05	7	.10
15	3	.00	8	.03	34	.52	7	.05	7	.07	12	.17
16	3	.00	7	.03	35	.50	7	.05	9	.11	18	.45
17	3	.00	7	.03	126	7.6	6	.04	53	1.9	10	.16
18	5	.02	6	.02	41	.95	6	.04	26	.44	8	.09
19	9	.04	6	.02	9	.11	69	4.9	18	.22	11	.10
20	8	.03	6	.03	6	.06	110	9.4	12	.14	16	.14
21	8	.03	7	.03	7	.05	72	3.8	8	.08	498	233
22	5	.01	7	.03	6	.04	27	.51	7	.07	91	10
23	4	.00	6	.02	4	.03	18	.24	10	.11	53	1.9
24	4	.01	5	.02	4	.02	10	.12	13	.17	26	.60
25	4	.01	27	.19	3	.02	4	.04	13	.18	15	.26
26	4	.01	117	2.4	3	.02	4	.04	13	.20	11	.16
27	5	.02	49	.49	5	.03	6	.05	8	.09	12	.14
28	7	.03	25	.14	5	.03	6	.04	12	.12	23	.62
29	8	.03	15	.06	4	.02	5	.04	---	---	47	2.7
30	9	.04	12	.05	2	.01	23	.39	---	---	92	12
31	6	.02	---	---	2	.00	23	.41	---	---	39	1.9
TOTAL	---	0.37	---	3.94	---	11.34	---	20.61	---	5.59	---	266.29

	MEAN CONCEN- TRATION	LOAD	MEAN CONCEN- TRATION	LOAD	MEAN CONCEN- TRATION	LOAD	MEAN CONCEN- TRATION	LOAD	MEAN CONCEN- TRATION	LOAD	MEAN CONCEN- TRATION	LOAD
DAY	(MG/L)	(TONS/ DAY)	(MG/L)	(TONS/ DAY)	(MG/L)	(TONS/ DAY)	(MG/L)	(TONS/ DAY)	(MG/L)	(TONS/ DAY)	(MG/L)	(TONS/ DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16	.45	10	.05	12	.13	13	.14	23	.20	19	.08
2	7	.15	14	.07	20	.31	21	.38	14	.08	16	.05
3	6	.09	16	.07	21	.20	13	.07	9	.03	11	.03
4	8	.11	14	.06	17	.12	8	.04	10	.03	8	.02
5	8	.10	12	.04	19	.26	7	.03	10	.03	8	.01
6	4	.05	6	.02	18	.17	8	.02	8	.02	7	.01
7	4	.05	7	.02	18	.15	8	.02	7	.02	7	.00
8	5	.06	9	.03	19	.15	17	.10	7	.01	7	.00
9	10	.12	11	.03	17	.10	21	.11	7	.01	6	.00
10	12	.15	13	.03	19	.09	14	.04	9	.05	6	.00
11	28	.73	13	.03	14	.06	14	.03	13	.16	6	.00
12	15	.35	11	.02	10	.04	13	.02	8	.04	6	.00
13	10	.19	10	.02	14	.13	15	.02	11	.08	6	.00
14	6	.09	8	.01	25	.23	20	.02	19	.29	5	.00
15	8	.11	6	.00	17	.08	12	.01	7	.03	4	.00
16	6	.09	6	.01	23	.19	6	.00	7	.02	5	.00
17	6	.10	12	.02	21	.18	8	.00	6	.01	6	.00
18	6	.08	18	.04	18	.08	11	.01	6	.01	10	.00
19	5	.05	84	2.5	20	.07	6	.00	4	.00	8	.00
20	8	.08	31	.43	23	.07	6	.00	6	.01	14	.02
21	8	.07	14	.13	24	.07	8	.00	8	.01	10	.01
22	6	.06	136	40	39	.27	10	.00	13	.02	8	.01
23	7	.06	96	36	226	69	8	.00	12	.02	12	.02
24	8	.06	9	.21	32	.81	8	.00	12	.02	16	.04
25	8	.05	26	.59	19	.20	9	.00	13	.02	10	.06
26	9	.06	85	11	15	.10	86	35	13	.01	8	.04
27	10	.07	34	1.8	14	.08	67	6.9	11	.01	10	.03
28	11	.07	13	.27	11	.05	18	.17	6	.00	11	.03
29	10	.05	10	.14	10	.04	40	5.9	8	.00	11	.03
30	9	.05	6	.06	10	.04	27	1.9	19	.07	4	.00
31	---	---	3	.02	---	---	30	.53	25	.22	---	---

YEAR 532.61

01659000 NORTH BRANCH CHOPAWAMSIK CREEK NEAR INDEPENDENT HILL, VA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLE TYPE	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION (00301)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)
OCT												
18...	1000	ENVIRONMENTAL	15.1	17.0	755	.99	50	6.2	93	6.4	<.041	<.006
NOV												
06...	1000	ENVIRONMENTAL	7.8	7.5	756	1.1	54	9.7	81	6.9	<.041	<.006
DEC												
19...	1030	ENVIRONMENTAL	2.5	3.0	751	4.4	50	11.1	82	6.7	<.041	<.006
JAN												
25...	0945	ENVIRONMENTAL	.5	-1.0	755	3.8	46	14.1	99	7.0	<.041	<.006
FEB												
13...	0830	ENVIRONMENTAL	3.3	3.5	762	3.2	49	14.3	89	7.1	<.041	<.006
MAR												
14...	0830	ENVIRONMENTAL	7.4	4.5	747	5.3	52	11.2	95	7.2	<.041	<.006
30...	1130	REPLICATE	7.2	14.5	745	76	36	10	90	6.6	<.041	<.006
30...	1130	ENVIRONMENTAL	7.2	14.5	745	76	36	10	90	6.6	<.041	<.006
APR												
19...	0945	ENVIRONMENTAL	8.4	10.5	758	4.0	51	11.1	100	6.9	<.041	E.003
MAY												
16...	0815	ENVIRONMENTAL	12.9	17.5	750	.56	55	10.1	95	7.1	<.041	<.006
JUN												
12...	0900	ENVIRONMENTAL	20.6	27.0	749	1.5	53	8.1	99	6.8	.117	.025
JUL												
16...	0900	ENVIRONMENTAL	18.9	21.5	752	.39	52	8.3	88	6.5	<.040	E.003
AUG												
15...	0900	ENVIRONMENTAL	21.4	24.5	753	2.0	48	5.8	68	6.5	E.024	<.006
SEP												
11...	1000	ENVIRONMENTAL	19.0	20.0	758	.50	54	8.0	90	7.2	<.040	<.006

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS P) (00631)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)	DATA BASE NUMBER
OCT											
18...	.12	.25	<.047	.018	E.003	<.018	3	.01	110	20	01
NOV											
06...	.10	.13	<.047	.019	.006	<.018	2	.01	E18k	29	01
DEC											
19...	.27	.25	E.031	.019	.009	<.018	6	.07	--	--	01
JAN											
25...	.15	.17	<.047	.015	.009	<.018	3	.03	--	--	01
FEB											
13...	E.06	<.08	<.047	.013	.006	<.018	3	.02	--	--	01
MAR											
14...	.15	.23	<.047	.018	E.005	<.018	5	.07	--	--	01
30...	.30	.47	.050	.054	.009	<.018	--	--	--	--	02
30...	.30	.46	E.047	.055	.008	<.018	94	19	--	--	01
APR											
19...	.17	.21	<.047	.017	.006	<.018	4	.04	--	--	01
MAY											
16...	.11	.23	E.023	.021	.007	<.018	5	.01	--	--	01
JUN											
12...	.30	.33	.536	.043	.007	<.020	8	.03	--	--	01
JUL											
16...	E.08	.34	E.025	.019	E.005	<.020	4	.00	--	--	01
AUG											
15...	.16	.27	E.032	.021	E.005	<.020	5	.03	--	--	01
SEP											
11...	.11	.12	<.050	.017	<.006	<.020	2	.00	--	--	01

Remark codes used in this report:

< -- Less than
E -- Estimated value

Value qualifier codes used in this report:

k -- Counts outside acceptable range